



Aeroflightdynamics Directorate

Ames Research Center, CA &
Langley Research Center, VA

CORE CAPABILITIES

Aeromechanics
Flight Control
Handling Qualities
Computational Fluid Dynamics

Advanced Design
Simulation & Information Technology
Human Systems Interface

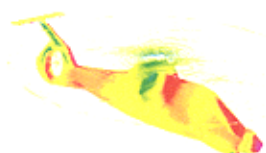
The Aeroflightdynamics Directorate (AFDD) performs basic and applied research in Army rotorcraft technologies to support the current fleet and prepare for future systems. A world class research organization for the world's best Army.

Physics-Based Modeling

- Aerodynamics & Acoustics
- Dynamics
- Comprehensive Analysis
- Flt Control / Handling Qualities
- Human-System Integration

Testing & Validation

- Components
- Model Scale
- Full Scale
- In Flight



Simulation

- Part Task
- Full Mission
- In Flight



Design Synthesis

- Concept Formulation
- Concept Evaluation
- Technology Planning
- Rapid Prototyping
- Advanced Optimization



The Foundation for Simulation-Based Acquisition of Rotorcraft